**Chinese Help in Power Generation**

1609. SHRI K.M. SAIFULLAH: Will the Minister of POWER be pleased to state:

(a) whether China will help Kerala in doubling power generation;

(b) if so, the details thereof; and

(c) whether such agreements are proposed for electricity generation in other States with Chinese assistance?

THE MINISTER OF POWER (SHRI R. KUMARAMANGALAM): (a) and (b) No. Sir.

However, the Government of Kerala/ Kerala State Electricity Board (KSEB) has signed two MOUs with the International Network on Small Hydro Power (IN-SHP), an international organisation for the promotion of small hydro power worldwide, with its headquarters in China, for the demonstration of the Chinese methodology of integrated development of small hydro power in Kerala. IN-SHP has offered to mobilise export credit for equipment.

(c) The Chinese National Machinery Import and Export Corporation (a Chinese Government undertaking under the Ministry of Foreign Trade) have offered implementation of Tenughat State-II (2×210 MW) in Bihar on turn-key basis through long term Credit facility through Chinese Government. A similar offer has been made for implementation of Ib Valley Stage-II (2×210 MW) to Govt. of Orissa.

**Modernisation and Renovation of Thermal and HYDEL Projects**

1610. SHRI JANARDHANA POOJARY: Will the Minister of POWER be pleased to state;

(a) whether Government have a proposal under consideration for modernisation and renovation of thermal and hydel projects; if so, the details thereof;

(b) the expenditure likely to be incurred thereon; and

(c) the capacity benefit that will accrue as a result thereof?

THE MINISTER OF POWER (SHRI R. KUMARAMANGALAM): (a) to (c) In order to improve the performance of the existing thermal power stations, a renovation and modernisation (R&M) programme (phase I) was launched by the Government of India in 1984. The programme covered 163 thermal units in 34 selected stations. The total sanctioned cost of various schemes was Rs. 1165/- crores. Benefits by way of additional generation of more than 10,000 MUs/year has been achieved against the targetted benefit of 7000 MUs/year.

Phase II programme for R&M for thermal power stations as taken up in the year 1990-91 for implementation during the 8th Plan. Under this programme, 44 thermal power stations comprising 198 thermal units aggregating to a total capacity of 20869.435 MW were covered at a total sanctioned cost of Rs. 2383.03 crores. After the completion of the programme, the benefits expected are:—

(i) additional generation of 7864 MUs/year;

(ii) increase of 100 MW peaking capacity; and

(iii) life extension of 24 thermal units by 15—20 years.

The programme for renovation, modernisation and uprating of hydel power stations was also formulated in which 55 schemes were identified with an aggregate capacity of 9653 MW (210 generating units). The total estimated cost of these schemes is Rs. 1493 crores and expected benefits are 2531 MW/ 7180 MUs.